Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

AIR QUALITY PERMIT

Permittee Name:	**ATOFINA Chemicals, Incorporated**
Mailing Address:	**2316 Highland Avenue, Carrollton, Kentucky 41008**
Source Name:	**ATOFINA Chemicals, Incorporated.**
Mailing Address:	**2316 Highland Avenue, Carrollton, Kentucky 41008**
Source Location:	**U.S. Highway 42, Carrollton, Kentucky**
Permit Number:	**VF-01-003**
Log Number:	**53610**
Review Type:	**Synthetic Minor Limit**
KYEIS ID #:	**21-041-00002**
SIC Code:	**2819, 2869, 2879, 2899**
Regional Office:	**Florence Regional Office** **7964 Kentucky Drive, Suite #8** **Florence, KY 41042** **(859) 292-6411**
County:	**Carroll**
Application Complete Date:	**March 27, 2002**
Issuance Date:	**August 21, 2001**
Expiration Date:	**August 21, 2006**

John E. Hornback, Director
Division for Air Quality

Revised 1/16/2001

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Rev #	Permit type	Log #	Complete Date	Issuance Date	Summary of Action
----	**Synthetic Minor Limit**	**53610**	**3/27/01**	**08/21/01**	**Limit operation of production areas B-48, B-03, and B-05**

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction and operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto and shall become the final permit unless the U.S. EPA files an objection pursuant to 401 KAR 52:100, Section 10.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

Description:

PRODUCTION AREA B48

Emission Point(s)	Process ID (Installation Date)	Process Description
(HT48)	4,000 gal. #1 Filter Hold Tank, TK-4810 (1998)	Interim storage
	400 gal. DBTC Hot Water Tank, TK-4847 (1975)	(same)
	3,000 gal. #5 Vessel Split Tank, TK-4807 (1997)	(same)
	1,500 gal. #2 Vessel Split Tank, TK-4809 (1975)	(same)
	4,000 gal. #2 Filter Feed Tank, TK-4811 (1975)	(same)
	4,000 gal. #4 Filter Feed Tank, TK-4818 (1996)	(same)
	4,000 gal. #3 Filter Feed Tank, TK-4819 (1979)	(same)
	1,000 gal. Glycol Hold Tank, TK-4836 (1996)	(same)
	25 gal. Heptane Hold Tank, TK-4850 (1996)	(same)
	810 gal. Tintet Weigh Tank, WT-4835 (1984)	(same)
	1,500 gal. #3 Reactor Vacuum Receiver, WT-4838 (1975)	(same)
	1,500 gal. 60/40 As Is Weigh Tank, WT-4840 (N/A)	(same)
	Seal Liquid Accumulator, TK-4870 (1998)	(same)
73(HT55)	4,000 gal. Methyltin Split Tank, TK-4814 (1999)	(same)
77(RC55)	4,000 gal. Methyltin Split Tank, TK-4815 (1999)	(same)
(MT48)	8,000 gal. Blend Tank, TK-4813 (1996)	(same)
(RC48V)	1,000 gal. #1 Receiver Tank, TK-4834 (1994)	Product/material receiving
	1,000 gal. #2 Receiver Tank, TK-4837 (1986)	(same)
	1,000 gal. #5 Vac. Receiver Tank, TK-4844 (1988)	(same)
	250 gal. Cooling Water Surge Pot, TK-4861 (1997)	(same)
(TE48)	Pipeline/Transport Equipment (N/A)	Pumps, pipes, valves, etc.
(RX48V)	3,000 gal. #1 Reactor, RX-4801 (1974)	Chemical reaction
	3,000 gal. #2 Reactor, RX-4802 (1977)	(same)
	3,000 gal. #3 Reactor, RX-4803 (1974)	(same)

Emission Point(s)	Process ID (Installation Date)	Process Description
	3,000 gal. #4 Reactor, RX-4804 (1971)	(same)
	6,000 gal. #5 Reactor, RX-4805 (1995)	(same)
(PF48)	Portable Niagara Filter, FI-4856 (1975)	Product filtering
	Portable Niagara Filter, FI-4859 (1956)	(same)
	Portable Niagara Filter, FI-4860 (1967)	(same)
	Portable Niagara Filter, FI-4862 (1995)	(same)
	Filter, FI-4816 (1998)	
(ST48)	4,000 gal. Mono Solution Tank, RX-4868 (1973)	Material handling/storage
	1,000 gal. TBTC Storage Tank, TK-4841 (1989)	(same)
	6,000 gal. DBTC Storage/Weigh Tank, TK-4848 (1952)	(same)

Note: For the Emission Point designations, the AV≅ refers to venting under vacuum conditions.

PRODUCTION AREA B48 DAQ Control Equipment

Description: Wet scrubber, please refer to **Section B.7**.

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations, which applies to emission units constructed on or after July 2, 1975*.

401 KAR 61:060, *Existing Source Standard for Solvent Operations*

401 KAR 63:020, *Potentially hazardous matter or toxic substances*

REGULATIONS NOT APPLICABLE:

401 KAR 51:017, *Prevention of significant deterioration of air quality*

401 KAR 60:005, Section 3(uu). Incorporated by Reference from 40 CFR 60.480 to 60.489 (Subpart VV), *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry.* **[**This Subpart does not apply to Emission Point (TE48) because this Emission Unit (Production Area B-48) does not meet the definition of a process unit in the synthetic organic chemical manufacturing industry. Production Area B-48 does not produce as an intermediate or final product any chemical listed in 40 CFR 60.489.**]**

401 KAR 57:040. *Equipment leaks of benzene*. Incorporated by reference from 40 CFR Part 61, Subpart J (40 CFR 61.110 to 61.112), *National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene.* **[**The emission standards provided in this Subpart do not apply to Emission Points (TE48) because this Emission Unit (Production Area B-48) is exempt per 40 CFR 61.110(c)(2). Production Area B-48 does not produce or use 1,000 megagrams or more of benzene per year.**]**

401 KAR 57:035. *National emission standard for equipment leaks (fugitive emission sources)*. Incorporated by reference from 40 CFR Part 61, Subpart V (40 CFR 61.240 to 61.247),

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

National Emission Standard for Equipment Leaks (Fugitive Emission Sources). **[**The Subpart does not apply to Emission Points (TE48) because this Emission Unit (Production Area B-48) is not subject to 40 CFR 61, Subpart J as described above.**]**

401 KAR 63:002, Section 3(c). Incorporated by Reference from 40 CFR 63.100 to 63.106 (Subpart F), *National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry.* [This Subpart does not apply to this Emission Unit (Production Area B-48). Production Area B-48 does not produce as an intermediate or final product any chemical listed in 40 CFR 63, Subpart F, Table 1. This declaration of non-applicability also applies to 401 KAR 63:002, Sections 3(b) and (c) incorporating 40 CFR 63, Subparts G and H.]

1. Operating Limitations:

a. Maximum annual production of monobutyltin trichloride (contained) solution utilizing heptane for separation shall not exceed 5,000,000 pounds during any 12 consecutive months.

b. The permittee shall be permitted to manufacture a new product type in the equipment identified as B48 production area, and replace, modify, or install process equipment within this area without having to apply for and obtain a construction permit pursuant to 401 KAR 52:020, unless the maximum potential annual emission rate of any regulated pollutant, will increase above the emission limitations described in this Section, the change is subject to a federal emission standard, or a new type air pollutant is generated at this area.

Compliance Demonstration Method:

a. Maintain records of the annual production of monobutyltin trichloride (contained) solution. Refer to **Sections 4 and 5**, below.

b. The permittee shall submit a notice of intent and technical support documentation to the division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type. The technical support documentation shall describe the maximum potential annual emission rate following the change and shall include a demonstration that the change is not subject to any federal emission standard.

c. When materials are processed that will produce particulate emissions refer to **Section B.4.f.**.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, emissions of particulate matter from emission point RX48V: 3,000 gal. #1 Reactor, RX-480; 3,000 gal. #2 Reactor, RX-4802; 3,000 gal. #3 Reactor, RX-4803; 3,000 gal. #4 Reactor, RX-4804; and 6,000 gal. #5 Reactor, RX-4805 shall not exceed the allowable rate limit as calculated by the following equation using the process weight rate (in units of reactor/(tons/hr)).

For process rates up to 60,000 lbs/hr: $E = 3.59P^{0.62}$

For the equation: E = rate of emissions in lb/hr, and

P = process weight rate in tons/hr.

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack which is equal to

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

or greater than twenty (20) percent opacity.

c. Pursuant to 401 KAR 61:060 Section 3(1), affected facilities using organic solvents shall not discharge more than 40 pounds per day or 8 pounds per hour of VOC's unless said emissions have been reduced by 85%.

d. Refer to **Section D.**

Compliance Demonstration Method:

a. The permittee shall assure compliance with the opacity limitations for each emission point listed in **Section B.2.b.** (above) by conducting visible emission observations in accordance with **Section B.4.a.** (below).

b. The permittee shall assure compliance with 401 KAR 61:060 by ensuring that less than 15% of the solvent used is emitted. This shall be calculated by using the following equations:

Annual VOC Emission Rate for Emission Unit: *the summation of monthly VOC emissions for any consecutive 12-months.*

VOC/Month (lbs/month) = PQMw/RT

P = vapor pressure (psia) of "worst case" solvent, Q = nitrogen flowrate (ft^3/month), Mw = molecular weight, R= Ideal gas law constant, and T = Degrees R

VOC (annual rolling total - all products) =

= 3 [Monthly VOC emission rate (lbs VOC/month)) 2,000 lbs/ton + Monthly VOC emission rates for the preceding 11 calendar months (tons/month)]

The permittee shall demonstrate compliance with 401 KAR 61:060 by ensuring that less than 15% of the solvent used is emitted. This shall be calculated by using the following equations:

% Solvent emitted = Monthly Air Emissions / Total Solvent Charged into Batches

Total Solvent Charged into Batches (all products) = 3 (# Batches * lb organic solvent per batch) for each product made.

c. Refer to **Section B.4., Specific Monitoring Requirements**.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements:

Pursuant to 401 KAR 50:045, Section 1, performance testing in accordance with EPA Reference Method 25, as referenced in 401 KAR 50:015, Section 1, shall be conducted as required by the Division. Please refer to **Section G(d)6**.

4. Specific Monitoring Requirements:

The permittee shall monitor the following:

a. The permittee shall monitor the amount of nitrogen used, solvents associated with the nitrogen usage, number of batches for each product, amount of solvent utilized in a typical batch, monthly pounds produced of monobutyltin trichloride (contained) solution utilizing heptane as solvent.

b. The permittee shall calculate the VOC emission rates from the B48 production area on a monthly basis.

c. The permittee shall calculate the average percent solvent emitted on a monthly basis.

d. The pemittee shall monitor the opacity of visible emissions for each affected emission point in accordance with **Section B.2.** and the following:

Once per calendar day when any specified emissions unit is operating, the permittee shall survey, for visible emissions and maintain a daily log noting the following information:

i. Whether any air emissions were visible from any of the respective emissions unit;

ii. All emission points from which visible emissions were observed;

iii. Whether the visible emissions were normal for the respective emissions unit.

If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform one of the following:

iv. The permittee shall perform a Method 9 reading for emission points of concern. The opacity observed shall be recorded in the daily log. A representative of the permittee certified in Visible Emissions Evaluations shall perform the reading. The permittee shall maintain a list of all individuals that are certified
Visible Emissions Evaluators and the date of certification; or

v. The permittee shall observe and record in the daily log the following information:

(1) The color of the emissions;

(2) Whether the emissions were light or heavy;

(3) The total duration of the visible emission incident;

(4) The cause of the abnormal emissions.

e. Monitor the operating parameters at the specified frequency for each control device. Please refer to the respective control device table in **Section B. 7**.

f. Maintain weight records of processed materials at emission units listed in **Section B.2., Emission Limitations** comply with 401 KAR 59:010.

5. Specific Recordkeeping Requirements:

The permittee shall record and maintain such records of the following information:

a. Number of batches and typical quantity of solvent used in a batch for each specific product type produced.

b. Monthly VOC emission calculations described in **Sections B.2. and 4** (above).

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Calculations of the % solvent emitted.
d. The visual inspections or opacity of emissions for each affected Emission Point in accordance with **Sections B.2. and 4** (above).
e. Maintain records of the operating parameters for the respective control device.
f. Record of production of monobutyltin trichloride solution produced utilizing heptane for separation.
g. Refer to the monitoring and operating parameters under control equipment table for Area B48.
h. Refer to **Section B.4., Specific Monitoring Requirements**, above.

6. Specific Reporting Requirements:

a. The permittee shall report the monthly and 12 consecutive month production rate for monobutyltin trichloride solution produced utilizing heptane for separation. These reports shall be submitted on a semi-annual basis.
b. Pursuant to **Section B.1** (above), a notice of intent to make a process change not subject to 401 KAR 52:020, Section 5, shall be submitted to the Division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type.

7. Specific Control Equipment Operating Conditions:

Control Equipment table Area B48

Emission Point(s)	Control Equipment	Monitoring and Operating Parameters (check once per shift)	Comments
(RX48) *RX-4802, RX-4803, RX-4804, RX-4805* **(HT48)** *TK-4807, TK-4810, TK-4819* **(HT55)** *TK-4814* **(RC55)** *TK-4815*	Packed-Bed Scrubber, Clean Gas Systems Model Unit Size 18, CO-4867 (1996)	Water Flowrate: Pressure Drop: pH: Note: These parameters shall be established at time of compliance testing	a) Refer to Section I b) Exceedence of operating parameters shall be reported and/or repaired in accordance with **Section F.6.**

a. Scrubber CO-4867 shall be operated in accordance with design parameters at all times the emission point is in operation. Designed parameters shall be established during compliance testing.
b. The scrubber shall be inspected on an annual basis. Preventive maintenance shall be performed in accordance with manufacturer specifications. The scrubber shall be inspected on an annual basis for proper operation of the following:
   1. Scrubber liquid pump(s)
   2. Scrubber liquid spray nozzles

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Scrubber internals
4. pH instrumentation

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated air pollution control equipment is not.

8. Alternate Operating Scenarios: NA

9. Compliance Schedule: NA

10. Compliance Certification Requirements: NA

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Description:

PRODUCTION AREA B3

Emission Point(s)	Process ID (Installation Date)	Process Description
FA (DR03S)	Patterson dryer, DR-0301 (1962)	Product drying
	Abbe Dryer, DR-0302	(same)
FB (DR03V)	(see above)	(see above)
FC (DT03S)	Drum/tote loading and unloading	Material handling
FD (FS03S)	Grinding Mill, ML-0313	Product forming/shaping
	Portable Granulator, ML-0334 (1976)	(same)
	Portable Sweco Screener	(same)
	Portable Mill	(same)
FE (PF03S)	50 gal. Niagara Filter, FI-0314	Product filtering
	50 gal. Alsop Box Filter, FI-0315	(same)
	Niagara Filter, FI-0322	(same)
FF (PF03V)	(see above)	(see above)
FG (RC03S)	180 gal. Dryer Surge Tank, TK-0301 (1987)	Product/material receiving
	180 gal. Dryer Surge Tank, TK-0302 (1984)	(same)
	300 gal. Salt Tank, TK -0304 (1957)	(same)
	1,000 gal. #3 Vacuum Receiver, TK-0318	(same)
	1,000 gal. #2 Vacuum Receiver, TK-0317 (1989)	(same)
	1,000 gal. #4/5 Vacuum Receiver, TK-0319 (1989)	(same)
	1,000 gal. #6 Vacuum Receiver, TK-0322 (1995)	(same)
	750 gal. #1 Receiver / Weigh Tank, WT-0324 (1957)	(same)
FH (RC03V)	(see above)	(see above)
FI (RX03S)	1,500 gal. #1 Reactor, RX-0316 (1969)	Chemical reaction
	1,500 gal. #2 Reactor, RX-0317	(same)
	1,500 gal. #3 Reactor, RX-0318 (1993)	(same)

Emission Point(s)	Process ID (Installation Date)	Process Description
	1,500 gal. #4 Reactor, RX-0319 (1996)	(same)
	1,500 gal. #5 Reactor, RX-0321 (1979)	(same)
	3,000 gal. #6 Reactor, RX-0322 (1996)	(same)
FJ (RX03V)	(see above)	(see above)
FK (TE03S)	Pipeline/Transport Equipment	Pumps, pipes, valves, etc.
FN (EF03S)	Flaker pan, tote bin, vacuum stripper, filter	Maleate production
FQ (ST03S)	5,000 gal. 2-MET Storage Tank, TK-0329	Material storage
(WW03)	Wastewater Treatment Operations	Wastewater treatment

Note: For the Emission Point designations, the AS≡ refers to an emission point vented under atmospheric conditions and the AV≡ refers to venting under vacuum conditions.

PRODUCTION AREA B-03 DAQ Control Equipment

Description: Scrubber and dust collector, please refer to **Section B.7**.

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*, applies to emission units constructed on or after July 2, 1975.
401 KAR 61:060, *Existing Source Standard for Solvent Operations*

REGULATIONS NOT APPLICABLE:
401 KAR 51:017, *Prevention of significant deterioration of air quality*
40 CFR 63 Subpart MMM, *National Emissions Standards for Hazardous Air Pollutants: Pesticide Active Ingredient Production*

1. Operating Limitations:

a. Maximum annual production for B3 area shall not exceed 12,000,000 lbs/yr of 2-mercaptoethyl tallate during any 12 consecutive months.
b. The permittee shall be permitted to manufacture a new product type in the equipment identified as B3 production area, and replace, modify, or install process equipment within this area without having to apply for and obtain a construction permit pursuant to 401 KAR 52:020, unless the maximum potential annual emission rate of any regulated pollutant, will increase above the emission limitations described in this Section, the change is subject to a federal emission standard, or a new type air pollutant is generated at this area.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Toluene shall not be used as a solvent in the B3 area.

Compliance Demonstration Method:

a. Maintain records of the annual production of 2-mercaptoethyl tallate. Refer to **Sections B. 4 and 5**, below.

b. The permittee shall submit a notice of intent and technical support documentation to the division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type. The technical support documentation shall describe the maximum potential annual emission rate following the change and shall include a demonstration that the change is not subject to any federal emission standard.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, emissions of particulate matter shall not exceed the following limitations:

Emission Point(s)	Allowable Emission Rate
FA, FB	2.34 lbs/hr
FC	4.84 lbs/hr
FD	2.34 lbs/hr
FE, FF	3.30 lbs/hr
FI, FJ	2.34 lbs/hr
FN	2.34 lbs/hr

b. Pursuant to 401 KAR 59:010, Section 3(1), the opacity of visible emissions from each emission point listed in **Section B.2.a.** shall not equal or exceed twenty (20) percent. Please refer to **Section B.4.b.**

c. Pursuant to 401 KAR 61:060 Section 3(1), affected facilities using organic solvents shall not discharge more than 40 pounds per day or 8 pounds per hour of VOC's unless said emissions have been reduced by 85%.

Compliance Demonstration Method:

The permittee shall assure continuing compliance with the particulate matter emission limitation for Emission Point FC by ensuring proper operation of the dust collector. Proper dust collector operation shall be assured by fulfilling requirements specified under **Sections 4 and 5** (below).

The visible emission observations for each emission point listed in **Section B.2.a**, excluding Emission Point FC, shall be conducted in accordance with **Section B.4.b.** (below).

The permittee shall assure continuing compliance with the annual VOC emission limitations by calculating worst case solvent emissions. This will be calculated by using the nitrogen consumption, average stack temperature and vapor pressure of the worst case solvent.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Annual VOC Emission Rate for Emission Unit: *the summation of monthly VOC emissions for any consecutive 12-months.*

Solvent/Month (lbs/month) = PQMw/RT

P = vapor pressure (psia) of "worst case" solvent, Q = nitrogen flowrate (ft^3/month), Mw = molecular weight, R= Ideal gas law constant, and T = Degrees R

VOC (annual rolling total - all products) =

= 3 [Monthly VOC emission rate (lbs VOC/month)) 2,000 lbs/ton + Monthly VOC emission rates for the preceding 11 calendar months (tons/month)]

The permittee shall demonstrate compliance with 401 KAR 61:060 by ensuring that less than 15% of the solvent used is emitted. This shall be calculated by using the following equations:

% Solvent emitted = Monthly Air Emissions / Total Solvent Charged into Batches

Total Solvent Charged into Batches (all products) = 3 (# Batches * lb organic solvent per batch) for each product made.

3. Testing Requirements:

Pursuant to 401 KAR 50:045, Section 1, performance testing in accordance with EPA Reference Method 25, as referenced in 401 KAR 50:015, Section 1, shall be conducted as required by the Division. Please refer to **Section G(d)6**.

4. Specific Monitoring Requirements:

a. The permittee shall monitor the amount of nitrogen used, solvents associated with the nitrogen usage, number of batches for each product, and amount of solvent utilized in a typical batch [401 KAR 52:020, Section 5 and 401 KAR 52:080, Section 5].

b. The permittee shall monitor the opacity of visible emissions for each affected emission point in accordance with the following [401 KAR 59:010, Section 3]:
Once per calendar day when any specified emissions unit is operating, the permittee shall survey, for visible emissions and maintain a daily log noting the following information:
   i. Whether any air emissions were visible from any of the respective emissions unit;
   ii. All emission points from which visible emissions were observed;
   iii. Whether the visible emissions were normal for the respective emissions unit.
   If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform one of the following:
   iv. The permittee shall perform a Method 9 reading for emission points of concern. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification; or

v. The permittee shall observe and record in the daily log the following information:
   (1) The color of the emissions;
   (2) Whether the emissions were light or heavy;
   (3) The total duration of the visible emission incident;
   (4) The cause of the abnormal emissions.

c. The permittee shall monitor the pH of the liquid of the Emission Point FI/FH caustic storage tank (TK 0356) which acts as a scrubber on a per strip cycle basis and the tank/scrubber liquid level prior to each strip cycle [401 KAR 52:020, Section 5 and 401 KAR 52:080, Section 5].

d. The permittee shall calculate the monthly and annual (12-month rolling total) VOC emission rates from these emissions units on a monthly basis [401 KAR 52:020, Section 5 and 401 KAR 52:080, Section 5].

e. The permittee shall calculate the average percent solvent emitted on a monthly basis [401 KAR 52:020, Section 5 and 401 KAR 52:080, Section 5].

f. The permitee shall monitor the annual production rate of 2-mercaptoethyl tallate, based on a 12 month rolling total.

g. Monitor the operating parameters at the specified frequency for each control device. Please refer to the respective control device table in **Section B. 7**.

h. Maintain weight records of process materials at emission points listed in **Section B.2., Emission Limitations**.

5. Specific Recordkeeping Requirements:

The permittee shall record and maintain such records of the following information:

a. pH readings prior to each strip cycle for Emission Point FI/FH caustic storage tank/scrubber and tank/scrubber liquid level.

b. Number of batches and typical quantity of solvent used in a batch for each specific product type produced.

c. The results of the annual inspections performed on the Emission Point FC dust collector and Emission Point FI/FH scrubber.

d Monthly VOC emission calculations described in **Sections B.2 and 4** (above). Documentation of process changes not subject to 401 KAR 52:020 and 52:080 pursuant to **Section B.1.** (above).

e. Calculations of the % solvent emitted.

f. Maintain record on the monthly and annual production rate of 2-mercaptoethyl tallate, based on a 12 month rolling total.

g. Maintain records of the operating parameters for the respective control device.

h. Refer to **Section B.4., Specific Monitoring Requirements**, above.

6. Specific Reporting Requirements:

a. Summary reports of monthly VOC emissions shall be made to the Division on a semi-annual basis. The reports shall include a description of each affected month's VOC emissions, in tons, and the 12-month rolling total annual VOC emission rate, in tons.

b. Pursuant to **Section B.1** (above), a notice of intent to make a process change not subject to

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

401 KAR 52:020, Section 5, shall be submitted to the Division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type.

7. Specific Control Equipment Operating Conditions:

Control Equipment, Area B3

Emission Point(s)	Control Equipment	Monitoring and Operating Parameters	Comments
FD (FS03S) Portable Mill	Unimaster Dust Collector, DU-0312	Pressure Drop: (check once per shift when in operation)	a) Refer to Section I b) Exceedence of operating parameters shall be reported and/or repaired in accordance with **Section F.6.**.
FD (FS03S) *ML-0313*	Portable Dust Collector	Pressure Drop: (check once per shift when in operation)	a) Refer to Section I b) Exceedence of operating parameters shall be reported and/or repaired in accordance with **Section F.6.**.
FI (RX03S) *RX-0316 & WT-0324*	Caustic Scrubber, TK-0356 (FI & FH use same control device)	Refer to **Section 4.c.** (check prior to start of each shift operation)	Exceedence of operating parameters shall be reported and/or repaired in accordance with **Section F.6.**.
FH (RC03V) *RX-0316 & WT-0324*	Caustic Scrubber, TK-0356	Refer to **Section 4.c.**	Exceedence of operating parameters shall be reported and/or repaired in accordance with **Section F.6.**.

a. The dust collector fabric filter unit associated with Emission Point FD shall be operated in accordance with the manufacturers' specifications and/or standard recommended operating procedures at all times the emission point is in operation. It shall be inspected on an annual basis for proper operation of the following:
   1. Filters - replace as needed
   2. Gaskets and Seals
   3. Filter cleaning mechanism

b. The scrubber associated with Emission Points FI and FH shall be operated in accordance with operating procedures at all times the emission points are in operation. The scrubber shall be inspected on an annual basis for proper operation of pH instrumentation. Operating parameters for the scrubber shall be established during compliance testing.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated air pollution control equipment is not.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

8. **Alternate Operating Scenarios:** NA

9. **Compliance Schedule:** NA

10. **Compliance Certification Requirements:** NA

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Description:

PRODUCTION AREA B5

Emission Point(s)	Process ID (Installation Date)	Process Description
(DC05)	1,000 gal. high-temp reactor, RX-0505 (1970)	Distillation
	Vacuum still, RX-0508 (1984)	(same)
	Vacuum still column, CO-0508 (1973)	(same)
(DC05V)	(see above)	(see above)
(DT05)	Drum/tote loading and unloading	Material handling
(RX05)	4,000 gal. Extractor, RX-0529 (1978)	Chemical reaction
(RX05V)	(see above)	(see above)
(RC05)	2,000 gal. Butyl Boil-off Tank, TK-0527 (1977)	Product/material receiving
	2,000 gal. Butyl Boil-off Tank, TK-TBD (2001)	Product/material receiving
	1,000 gal. Forerunner Hold Tank, TK-0501 (1977)	(same)
	1,000 gal. Monobutyl Receiver, WT-0503 (1996)	(same)
	1,000 gal. Dichloride Receiver, WT-0506 (1964)	(same)
	750 gal. Surge Pot, TK-0508A (1994)	(same)
(TE05)	Pipeline/Transport Equipment (N/A)	Pumps, pipes, valves, etc.

Note: For the Emission Point designations, the AS≡ refers to an emission point vented under atmospheric conditions and the AV≡ refers to venting under vacuum conditions.

PRODUCTION AREA B5 DAQ Control Equipment

Description: Carbon adsorption, please refer to **Section B.7**.

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, which applies to emission units constructed on or after July 2, 1975.
401 KAR 61:060, *Existing Source Standard for Solvent Operations*
401 KAR 63:020, *Potentially hazardous matter or toxic substances*

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

REGULATIONS NOT APPLICABLE:

401 KAR 51:017, *Prevention of significant deterioration of air quality*

401 KAR 60:005, Section 3(uu). Incorporated by Reference from 40 CFR 60.480 to 60.489 (Subpart VV), *Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry*. **[**This Subpart does not apply to Emission Point (TE05) because this Emission Unit (Production Area B-05) does not meet the definition of a process unit in the synthetic organic chemical manufacturing industry. Production Area B-05 does not produce an intermediate or final product listed in 40 CFR 60.489.**]**

401 KAR 63:002, Section 3(c). Incorporated by Reference from 40 CFR 63.100 to 63.106 (Subpart F), *National Emission Standards for Organic Hazardous Air Pollutants From the Synthetic Organic Chemical Manufacturing Industry*. **[**This Subpart does not apply to this Emission Unit (Production Area B-05). Production Area B-05 does not produce as an intermediate or final product any chemical listed in 40 CFR 63, Subpart F, Table 1. This declaration of non-applicability also applies to 401 KAR 63:002, Sections 3(b) and (c) incorporating 40 CFR 63, Subparts G and H.**]**

1. Operating Limitations:

a. Maximum annual production for B5 area shall not exceed 3,300,000 lbs/yr of MBTTC anhydrous (MBTTC/DBTDC process) and 9,490,000 lbs/yr of Dibutyltin Dichloride (catalytic process method) during any 12 consecutive months.

b. The permittee shall be permitted to manufacture a new product type in the equipment identified as B5 production area, and replace, modify, or install process equipment within this area without having to apply for and obtain a construction permit pursuant to 401 KAR 52:020, unless the maximum potential annual emission rate of any regulated pollutant, will increase above the emission limitations described in this Section, the change is subject to a federal emission standard, or a new type air pollutant is generated at this area.

Compliance Demonstration Method:

a. Maintain records of the annual production when MBTTC anhydrous/DBTDC and Dibutyltin Dichloride (catalytic process method) are produced. Refer to **Sections B.4 and 5**, below.

b. The permittee shall submit a notice of intent and technical support documentation to the division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type. The technical support documentation shall describe the maximum potential annual emission rate following the change and shall include a demonstration that the change is not subject to any federal emission standard.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, emissions of particulate matter for emission points **DC05** -1,000 gal. high-temp reactor, RX-0505 and **DT05** - Drum/tote loading and unloading

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

shall not exceed the allowable rate limit as calculated by the following equation using the process weight rate (in units of emission unit/(tons/hr)).

For process rates rates up to 60,000 lbs/hr: $E = 3.59P^{0.62}$

For the equation: E = rate of emissions in lb/hr, and

P = process weight rate in tons/hr.

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow, or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity. Please refer to **Section B.4.d.**
c. Pursuant to 401 KAR 61:060 Section 3(1), affected facilities using organic solvents shall not discharge more than 40 pounds per day or 8 pounds per hour unless said emissions have been reduced by 85%.
d. Refer to **Section D.**

Compliance Demonstration Method:

Refer to **Section B.4.g.**.

a. The permittee shall assure compliance with the opacity limitations for each emission point listed in **Section B.2.b.** (above) by conducting visible emission observations in accordance with **Section B.4.a.** (below).
b. The permittee shall assure compliance with 401 KAR 61:060 by ensuring that less than 15% of the solvent used is emitted. This shall be calculated by using the following equations:

   Annual VOC Emission Rate for Emission Unit: *the summation of monthly VOC emissions for any consecutive 12-months.*

   VOC/Month (lbs/month) = PQMw/RT

   P = vapor pressure (psia) of "worst case" solvent, Q = nitrogen flowrate (ft^3/month), Mw = molecular weight, R= Ideal gas law constant, and T = Degrees R

   VOC (annual rolling total - all products) =

   = 3 [Monthly VOC emission rate (lbs VOC/month)) 2,000 lbs/ton + Monthly VOC emission rates for the preceding 11 calendar months (tons/month)]

The permittee shall demonstrate compliance with 401 KAR 61:060 by ensuring that less than 15% of the solvent used is emitted. This shall be calculated by using the following equations:

% Solvent emitted = Monthly Air Emissions / Total Solvent Charged into Batches

Total Solvent Charged into Batches (all products) = 3 (# Batches * lb organic solvent per batch) for each product made.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Refer to **Section B.4., Specific Monitoring Requirements**.

3. Testing Requirements:

Pursuant to 401 KAR 50:045, Section 1, performance testing in accordance with EPA Reference Method 25, as referenced in 401 KAR 50:015, Section 1, shall be conducted as required by the Division. Please refer to **Section G(d)6**.

4. Specific Monitoring Requirements:

a. When solvents are processed, the permittee shall monitor the amount of nitrogen used, solvents associated with the nitrogen usage, number of batches for each product, and amount of solvent utilized in a typical batch, and the hours of operation when solvent materials are used.

b. When solvents are processed, the permittee shall calculate the monthly and annual (12-month rolling total) VOC emission rates from the B5 area on a monthly basis.

c. When solvents are processed, the permittee shall calculate the average percent solvent emitted on a monthly basis.

d. The pemittee shall monitor the opacity of visible emissions for each affected Emission Point in accordance with the following:

Once per calendar day when any specified emissions unit is operating, the permittee shall survey, for visible emissions and maintain a daily log noting the following information:

i. Whether any air emissions were visible from any of the respective emissions unit;

ii. All emission points from which visible emissions were observed;

iii. Whether the visible emissions were normal for the respective emissions unit.

If no visible emissions are observed then no further monitoring is required. If visible emissions are observed, the permittee shall perform one of the following:

iv. The permittee shall perform a Method 9 reading for emission points of concern. The opacity observed shall be recorded in the daily log. The reading shall be performed by a representative of the permittee certified in Visible Emissions Evaluations. The permittee shall maintain a list of all individuals that are certified Visible Emissions Evaluators and the date of certification; or

v. The permittee shall observe and record in the daily log the following information:

(1) The color of the emissions;

(2) Whether the emissions were light or heavy;

(3) The total duration of the visible emission incident;

(4) The cause of the abnormal emissions.

e. The pemitee shall monitor the annual production rate of MBTTC anhydrous/DBTDC and Dibutyltin Dichloride, based on a 12 month rolling total.

f. Monitor the operating parameters at the specified frequency for each control device. Please refer to the respective control device table in **Section B. 7**.

g. Maintain weight records of processed materials at emission units listed in **Section B.2., Emission Limitations** comply with 401 KAR 59:010.

5. Specific Recordkeeping Requirements:

The permittee shall record and maintain such records of the following information:

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

a. Number of batches and typical quantity of solvent used in a batch for each specific product type produced.
b. The results of the weekly inspections performed and replacements made on the Emission
c. Maintain records of the operating parameters for the respective control device. Point DC05.
c. Monthly VOC emission calculations described in **Sections B.2. and B.4** (above).
d. Documentation of process changes not subject to 401 KAR 52:020 pursuant to **Section B.1.** (above).
e. Calculations of the percent solvent emitted.
f. Maintain records on the monthly and annual production rate of MBTTC anhydrous/DBTDC and of Dibutyltin Dichloride based on a 12 month rolling total.
g. Maintain records of the operating parameters for the respective control device.
h. Refer to **Section B.4., Specific Monitoring Requirements**, above.

6. Specific Reporting Requirements:

a. Summary reports of VOC emissions shall be made to the Division each month within 30 days after the end of each calendar quarter. The reports shall include a description of the affected month's VOC emissions, in tons, and the 12-month annual rolling total VOC emission rate, in tons.
b. Pursuant to **Section B.1.** (above), a notice of intent to make a process change not subject to 401 KAR 52:020 shall be submitted to the Division thirty days prior to commencing construction, modification, or replacement of equipment, or the manufacture of a new product type

7. Specific Control Equipment Operating Conditions:

a. The non-regenerable carbon adsorption unit, with organic saturation incinerator, associated with Emission Point DC05 shall be operated in accordance with manufacturer's specifications and/or standard recommended operating procedures at all times the emission points in operation. It shall be inspected on a per shift basis for proper operation and indication of VOC breakthrough. If, during the completion of the shift inspections, the permittee determines that VOC breakthrough has occurred on the first carbon canister in the series, the permittee shall replace the non-regenerable carbon adsorption unit within the next operating shift. Please refer to the monitoring and operating parameters in the control equipment table, Area B5, below.
b. Notwithstanding the requirements of **Section B.7.a** (above), the permittee shall replace the nonregenerable carbon adsorption unit associated with Emission Points DC05 on an annual basis.
c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated air pollution control equipment is not.

SECTION B - AFFECTED FACILLITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Control Equipment, Area B5

Emission Point	Control Equipment	Monitoring and Operating Parameters	Comments
(DC05)	Nonregenerable carbon adsorption unit (two 55 gallon drums in series)	Organic Saturation Indicator (Check once per shift)	Maintain log of Indicator checks and date replace Indicator.

8. **Alternate Operating Scenarios:** NA

9. **Compliance Schedule:** NA

10. **Compliance Certification Requirements:** NA

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

Description	Generally Applicable Regulation
B-48	
None	NA

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

Production Area B48
Production Area B3
Production Area B5

1. As required by Section 1b of the material incorporated by reference in 401 KAR 52:020 Section 10, compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Toxic emissions, as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations.

APPLICABLE REGULATIONS:

Refer to **Section B**.

401 KAR 63:021, *Existing sources emitting toxic air pollutants*, effective date January 19, 1999 applies to sources in existence on the effective date of the regulation which were issued a permit with conditions based on 401 KAR 63:022. The source is required to comply with all conditions based on 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

1. Operating Limitations:

Refer to **Section B** for production areas B48, B3, and B5.

Compliance Demonstration Method:

Refer to Section B for procuction areas B48, B3, and B5

2. Emission Limitations:

a. Pursuant to 401 KAR 63:021, Section 1, a source in existence on the effective date of this administrative regulation which was issued a permit pursuant to 401 KAR 50:035 with conditions based on this administrative regulation or 401 KAR 63:022 shall continue to comply with all conditions based on this administrative regulation or 401 KAR 63:022 unless it can demonstrate that a condition is no longer necessary to protect human health and the environment.

b. Pursuant to 401 KAR 63:020, Section 3, no owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants.

c. The VOC emission increase shall not exceed 36 TPY

Compliance Demonstration Method:

a. Toxic emission rate limits may be demonstrated by computer modeling, calculations or

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

performance tests as may be specified and requested by the Division [401 KAR 63:021, Section 1].

b. Exiting air pollution control equipment shall continue to be operated and maintained in accordance with the manufacture's specifications [401 KAR 63:020, Section 3].

c. Compliance shall be demonstrated by performing monitoring and recordkeeping specified under **Sections B.4, B.5.** or **B.7.** for the respective production area [401 KAR 63:020, Section 3].

d. Compliance with the VOC emission rate shall be demonstrated by monitoring and maintaining the records specified in **Section B**.

3. Testing Requirements:

Pursuant to 401 KAR 59:005, Section 2(2), 401 KAR 50:045, Section 1 and 40 CFR 60.736, performance testing using Reference Methods specified in 401 KAR 50:015 shall be conducted if required by the division.

4. Specific Monitoring Requirements: NA

5. Specific Recordkeeping Requirements: NA

6. Specific Reporting Requirements: NA

7. Specific Control Equipment Operating Conditions:

Refer to **Section B.7.** under the respective production area and emission unit.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place as defined in this permit, and time of sampling or measurements.
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.
   [Material incorporated by reference by 401 KAR 52:020, Section 1b (IV)1

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality. [Material incorporated by reference by 401 KAR 52:020, Sections 1b(IV) 2 and 1a(8)]

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control quipment), practice, or operation;
   b. To access and copy any records required by the permit:
   c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
   d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
   e. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation.
   [Material incorporated by reference by 401 KAR 52:020, Section 1b (V)1.]

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due prior to January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6. [Material incorporated by reference by 401 KAR 52:020, Section 1b V 3, 4.]

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
   a. Identification of the term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period, and
   e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Florence Regional Office
8020 Veterans Memorial Drive, Suite 110
Florence, KY 41042

U.S. EPA Region IV
Air Enforcement Branch
61 Forsyth St.
Atlanta Federal Center
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the division by the source or its representative within forty-five days after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 3]

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 6]

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
   d. If any additional applicable requirements of the Acid Rain Program become applicable to the source.

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the division may provide a shorter time period in the case of an emergency.

3. The permittee shall furnish information upon requested by the cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 7,8]

4. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority. [Material incorporated by reference by 401 KAR 52:020, Section 7(1)]

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 14]

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 4]

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 15)b]

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6). [Material incorporated by reference by 401 KAR 52:020, Section 1a, 10]

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance. [401 KAR 52:020, Section 11(3)(b)]

11. This permit does not convey property rights or exclusive privileges. [Material incorporated by reference by 401 KAR 52:020, Section 1a, 9]

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry. [401 KAR 52:020, Section 11(3)(d)].

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders. [401 KAR 52:020, Section 11(3)(a)]

15. Permit Shield - A permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of a permit shall be considered compliance with:
    (a) Applicable requirements that are included and specifically identified in the permit and
    (b) Non-applicable requirements expressly identified in this permit.

16. All previously issued construction and operating permits are hereby subsumed into this permit.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the division. [401 KAR 52:020, Section 12]

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the division after the completeness determination has been made on any application, by whatever deadline the division sets. [401 KAR 52:030 Section 8(2)]

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements

1. Construction of process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.

2. Within thirty (30) days following completion and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the division's Frankfort Central Office, notification of the following:
   a. The date when construction commenced.
   b. The date of start-up of the affected facilities listed in this permit.
   c. The date when the maximum production rate specified in the permit application was achieved.

SECTION G - GENERAL PROVISIONS (CONTINUED)

3. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the cabinet may extend these time periods if the source shows good cause.

4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the cabinet.

5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance test on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Provisions G(d)6 of this permit and the permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test.

6. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the division shall be notified of the actual test date at least ten (10) days prior to the test.

(e) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:

SECTION G - GENERAL PROVISIONS (CONTINUED)

a. An emergency occurred and the permittee can identify the cause of the emergency;
b. The permitted facility was at the time being properly operated;
c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
d. The permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division within ten (10) working days of the time when emission limitations were exceeded due to the emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
e. This requirement does not relieve the source from other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement. [401 KAR 52:020, Section 24(3)]

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof. [401 KAR 52:020, Section 24(2)]

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 3346
Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as

SECTION G - GENERAL PROVISIONS (CONTINUED)

defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166

e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

SECTION H - ALTERNATE OPERATING SCENARIOS

NA

SECTION I - COMPLIANCE SCHEDULE

NA

SECTION J - ACID RAIN

NA